

**Commonwealth of Kentucky**  
**Division for Air Quality**

**PERMIT APPLICATION SUMMARY FORM**

Completed by: IL-WON SHIN

GENERAL INFORMATION:

Name:	Bluegrass Bioenergy, LLC
Address:	904 Kentucky Avenue, Fulton, KY 42041
Date application received:	May 31, 2006
SIC/Source description:	2869, Industrial Organic Chemicals
Source ID #:	21-075-00027
Source A.I. #:	80142
Activity #:	APE20060001
Permit number:	F-06-033

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
___ Administrative	<input type="checkbox"/> Title V
___ Minor	<input type="checkbox"/> Synthetic minor
___ Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:017, 1(2)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☐ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application

**EMISSIONS SUMMARY:**

The following table represents the facility total Actual and Potential to Emission (PTE).

Pollutant	Potential (tpy)
PM/PM <sub>10</sub>	54.90 / 47.79
SO <sub>2</sub>	30.50
NO <sub>x</sub>	61.64
CO	56.09
VOC	92.40
Individual HAP > 10 TPY Acetaldehyde	< 9
Total HAP	< 22.5

Note: Source not constructed. No actual emissions prior to application submittal.

**SOURCE DESCRIPTION:**

Bluegrass Bioenergy, LLC (Bluegrass) is a proposed new ethanol production facility in the City of Fulton, Fulton County, Kentucky. The facility will have the potential to manufacture 60,000,000 gallons of denatured, fuel grade ethanol per year. As part of the process, the facility will produce animal feed as a co-product. The animal feed, known as distiller's grain and solubles (DGS) can be sold as is (wet cake), dried completely (DDGS), or partially dried (modified wet cake).

**EMISSION AND OPERATING CAPS DESCRIPTION:**

In order to ensure that the facility remains exempt from the regulations for major sources of criteria and hazardous air pollutant (HAP) emissions, Bluegrass is requesting a conditional major permit. Emissions will be limited to less than 92.40 ton/yr volatile organic compounds (VOC), 22.5 ton/yr of total HAP, and 9 ton/yr of an individual HAP. Bluegrass has also requested source-wide limits for PM, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub>, and CO. Monthly and rolling 12-month total emissions will be calculated. Emission calculations and supporting documentation will be retained at the facility.

**OPERATIONAL FLEXIBILITY:**

None